

Abstract

A switch includes a switching element, a substrate, and a lid. The substrate has internal and external metal layers separated by at least an insulating layer. The substrate's external metal layer has a first plurality of signal conductors formed therein, at least some of which are in contact with the switching element. The substrate's internal metal layer has a second plurality of signal conductors formed therein, which are electrically coupled to the first plurality of signal conductors by means of a first plurality of conductive vias in the insulating layer. The lid is attached to the substrate to encapsulate the first plurality of signal conductors between the lid and the substrate.